

AMENDMENT TO THE CLAIMS

Claims 1-17 (canceled).

18. (currently amended) A power tester apparatus for testing an electronic device, the device configured to operate using a constant power supply voltage at a nominal power supply voltage, the apparatus comprising:

a power source supplying the constant power supply voltage at the nominal power supply voltage of the electronic device;

a connector coupled to the power source, the connector adapted to connect the constant power supply voltage to a power supply input on the electronic device;

circuitry configured to introduce disturbances into the constant power supply voltage applied to the electronic device, a disturbance configured to simulate an unexpected and random change in athe nominal power supply voltage;

wherein the disturbances introduced into the constant power supply voltage applied to the electronic device are controllable.

19. (previously presented) The apparatus of claim 18 wherein the disturbance is a rising pulse having a maximum voltage which is controllable.

20. (previously presented) The apparatus of claim 18 wherein the disturbance is a low-going pulse having a minimum voltage being less than the voltage.

21. (previously presented) The apparatus of claim 18 wherein the constant power supply voltage is selected from the group of voltages consisting of +5 VDC and +12 VDC.

22. (previously presented) The apparatus of claim 18 further comprising an additional power source supplying an additional voltage wherein the additional power source is adapted to connect the additional voltage to an additional connector.

23. (previously presented) The apparatus of claim 22 wherein the additional voltage is + 24 VDC.

24. (previously presented) The apparatus of claim 18 including a manually operated user interface used to control the disturbances.

25. (previously presented) The apparatus of claim 18 wherein the disturbance is at least one pulse having a duration and a magnitude which are controllable.

26. (previously presented) The apparatus of claim 18 wherein the disturbance is a plurality of pulses and a frequency and a number of pulses in the plurality of pulses are controllable.

27. (previously presented) The apparatus of claim 18 wherein the disturbance comprises a voltage sequence applied during powering up of the electronic device.

28. (currently amended) A method for testing an electronic device of the type which is powered by a constant power supply voltage at a nominal power supply voltage, the method comprising:

supplying the constant powering supply voltage at the nominal power supply voltage of the device from a voltage source;

coupling the constant power supply voltage to a connector, the connector adapted to connect the constant power

supply voltage to a power supply input of the electronic device;
introducing a disturbance into the constant power supply voltage applied to the power supply input of the electronic device; and
controlling the disturbance introduced into the constant power supply voltage applied to the power supply to simulate an unexpected and random change in the nominal power supply voltage.

29. (previously presented) The method of claim 28 wherein the disturbance is a rising pulse having a maximum voltage which is controllable.

30. (previously presented) The method of claim 28 wherein the disturbance is a low-going pulse voltage which is controllable.

31. (previously presented) The method of claim 28 wherein the nominal voltage is selected from the group of voltages consisting of +5 VDC and +12 VDC.

32. (previously presented) The method of claim 28 further comprising:

supplying an additional voltage from an additional power source, the additional power source adapted to connect the additional voltage to an additional connector.

33. (previously presented) The method of claim 32 wherein the additional voltage is + 24 VDC.

34. (previously presented) The method of claim 28 including receiving control parameters from the user interface.

35. (previously presented) The method of claim 28 wherein the disturbance is a pulse having a controllable duration and a controllable magnitude.

36. (previously presented) The method of claim 28 wherein the disturbance is a plurality of pulses and a number of the plurality of pulses are controllable.

37. (previously presented) The method of claim 28 further including providing a 0 VDC voltage for a preselected duration of time after the voltage is coupled to the connector.